# Harbor Point Draft Service Plan

Planning & Scheduling Department 26 Elm Court Stamford, CT 06902 July 2008

### HARBOR POINT PROJECT OVERVIEW

The following pages outline a draft route, schedule and cost recap for the proposed Harbor Point TOD Project in Stamford's South End. This proposal has been developed at the request of Antares Real Estate, within the general guidelines developed by Earth Tech, including:

- Three bus routes originating at Harbor Point:
  - H1 Railroad Station Shuttle
  - H2 Downtown Shuttle
  - H3 Shopping & Entertainment Shuttle
- Free of charge to both Harbor Point residents and the general public
- Operated using six 30-foot, low-floor, heavy-duty transit buses

It is envisioned that the Harbor Point shuttle service will eventually replace CTTRANSIT's existing Route 44 in the South End neighborhood on weekdays, although Route 44 will need to continue to provide midday service in the Harbor Point area during Phase 1 of the project.

The lack of weekend service on the Harbor Point routes will leave only CTTRANSIT Route 44 to serve this area on weekends. The Planning & Scheduling Department feels that the current hourly service on Route 44 will not adequately address the transit needs of Harbor Point residents and therefore recommends considering some level of Saturday and Sunday service be included in Phase 3 of the project.

It also should be noted that if the Harbor Point shuttle services are as successful as Earth Tech has projected, it may be necessary to implement further enhancements to the routes and schedules, requiring the procurement of additional vehicles, including spares.

### HARBOR POINT PROJECT PHASE 1

### Highlights:

- Projected Implementation: Fall 2010
- 575 housing units
- Purchase 3 buses (2 plus 1 spare)
- Hire 2 new bus operators
- Peak hour service begins on Route H1
- Peak hour service begins on Route H2

### Route H1: Harbor Point - Stamford Railroad Station

Route H1 will provide a peak hour link between Harbor Point, Yale & Towne and the Stamford Railroad Station and Transportation Center. One bus will be used to operate Route H1 at a 15-minute headway from 5:30AM to 9:38AM and from 3:00PM to 9:09PM. Although Route H1 will be geared toward commuters traveling toward the Railroad Station/Transportation Center in the morning and returning to Harbor Point/Yale & Towne in the evening, the service will also support reverse-commuters.

### Morning Route

Route H1 begins at the Harbor Point Transit Hub and makes local stops along Pacific Street en route to the main bus stop at Yale & Towne on Pacific Street.

From Yale & Towne, Route H1 follows the Stamford Urban Transitway to Stamford Railroad Station, stopping at a new bus stop on Station Place to drop off passengers connecting with Metro-North, Shore Line East and Amtrak trains.

From Stamford Station, Route H1 turns right on Washington Boulevard, right on South State Street, left on Guernsey Street and left on North State Street to the Stamford Transportation Center, stopping at the intercity bus stop to drop off passengers connecting with CTTRANSIT, Greyhound and Peter Pan buses.

From the Transportation Center, Route H1 returns to the Harbor Point Transit Hub, making local stops along Washington Boulevard.

### Afternoon Route

Route H1 begins at the Harbor Point Transit Hub and makes local stops en route to the Stamford Transportation Center via Washington Boulevard, South State Street, Guernsey Street and North State Street.

After picking up connecting bus passengers at the Transportation Center, Route H1 turns left on North State Street, left on Washington Boulevard and left on South State Street to the Stamford Railroad Station and picks up connecting train passengers at the existing bus stop inside the cut-out on South State Street.

From Stamford Station, Route H1 turns right on Atlantic Street and then follows the Stamford Urban Transitway to Pacific Street, stopping at the main bus stop at Yale & Towne on Pacific Street.

From Yale & Towne, Route H1 returns to the Harbor Point Transit Hub, making local stops along Pacific Street

### Route H2: Harbor Point - Downtown Stamford

Route H2 will provide a peak hour link between Harbor Point, Yale & Towne and Stamford's central business district. One bus will be used to operate Route H2 at a 30-minute headway from 6:00AM to 9:19AM and from 3:06PM to 6:56PM. Although Route H2 will be geared toward commuters traveling toward the CBD in the morning and returning to Harbor Point/Yale & Towne in the evening, the service will also support reverse-commuters.

### Morning & Afternoon Route

Route H2 begins at the Harbor Point Transit Hub and makes local stops along Pacific Street en route to the main bus stop at Yale & Towne on Pacific Street.

From Yale & Towne, Route H1 follows the Stamford Urban Transitway to Atlantic Street then makes a loop through the Stamford CBD via Tresser Boulevard, Elm Street, Grove Street, Broad Street, Bedford Street, Second Street, Summer Street, Main Street and back to Atlantic Street.

From Atlantic Street, Route H2 follows the Stamford Urban Transitway to back to the main bus stop at Yale & Towne on Pacific Street then returns to the Harbor Point Transit Hub, making local stops along Pacific Street.

# HARBOR POINT: PHASE 1 PRELIMINARY SCHEDULE

	MOR	NING SCHED	JLE			AFT	ERNOON SCHE	DULE	
		Stamford	Stamford		Stamford	Stamford			Stamford
Harbor Point	Yale & Towne	Station	Transportation	Harbor Point	Transportation	Station	Yale & Towne	Harbor Point	Transportation
Transit Hub	Pacific St	Station PI	Center	Transit Hub	Center	Station PI	Pacific St	Transit Hub	Center
5:30*	5:33	5:36	5:38	5:44	3:00*	3:01	3:04	3:07	3:13
5:45	5:48	5:51	5:53	5:59	3:15	3:16	3:19	3:22	3:28
6:00	6:03	6:06	6:08	6:14	3:30	3:31	3:34	3:37	3:43
6:15	6:18	6:21	6:23	6:29	3:45	3:46	3:49	3:52	3:58
6:30	6:33	6:36	6:38	6:44	4:00	4:01	4:04	4:07	4:13
6:45	6:48	6:51	6:53	6:59	4:15	4:16	4:19	4:22	4:28
7:00	7:03	7:06	7:08	7:14	4:30	4:31	4:34	4:37	4:43
7:15	7:18	7:21	7:23	7:29	4:45	4:46	4:49	4:52	4:58
7:30	7:33	7:36	7:38	7:44	5:00	5:01	5:04	5:07	5:13
7:45	7:48	7:51	7:53	7:59	5:15	5:16	5:19	5:22	5:28
8:00	8:03	8:06	8:08	8:14	5:30	5:31	5:34	5:37	5:43
8:15	8:18	8:21	8:23	8:29	5:45	5:46	5:49	5:52	5:58
8:30	8:33	8:36	8:38	8:44	6:00	6:01	6:04	6:07	6:13
8:45	8:48	8:51	8:53	8:59	6:15	6:16	6:19	6:22	6:28
9:00	9:03	9:06	9:08	9:14	6:30	6:31	6:34	6:37	6:43
9:15	9:18	9:21	9:23	9:29	6:45	6:46	6:49	6:52	6:58
9:30	9:33	9:36	9:38*		7:00	7:01	7:04	7:07	7:13
					7:15	7:16	7:19	7:22	7:28
					7:30	7:31	7:34	7:37	7:43
					7:45	7:46	7:49	7:52	7:58
					8:00	8:01	8:04	8:07	8:13
					8:15	8:16	8:19	8:22	8:28
					8:30	8:31	8:34	8:37	8:43
					8:45	8:46	8:49	8:52	8:58
					9:00	9:01	9:04	9:09*	

# HARBOR POINT: PHASE 1 PRELIMINARY SCHEDULE

H2 DOWNT	OWN LOOP								
Harbor Point	Yale & Towne	Atlantic &	Broad &	Bedford &	2nd &	Summer &	Main &	Yale & Towne	Harbor Point
Transit Hub	Pacific St	Tresser	Grove	Forest	Bedford	Hoyt	Atlantic	Pacific St	Transit Hub
6:00*	6:03	6:06	6:09	6:11	6:14	6:16	6:19	6:23	6:26
6:30	6:33	6:36	6:39	6:41	6:44	6:46	6:49	6:53	6:56
7:00	7:03	7:06	7:09	7:11	7:14	7:16	7:19	7:23	7:26
7:30	7:33	7:36	7:39	7:41	7:44	7:46	7:49	7:53	7:56
8:00	8:03	8:06	8:09	8:11	8:14	8:16	8:19	8:23	8:26
8:30	8:33	8:36	8:39	8:41	8:44	8:46	8:49	8:53	8:56
9:00	9:03	9:06	9:09	9:11	9:14	9:16	9:19*		
		3:06*	3:09	3:11	3:14	3:16	3:19	3:23	3:26
3:30	3:33	3:36	3:39	3:41	3:44	3:46	3:49	3:53	3:56
4:00	4:03	4:06	4:09	4:11	4:14	4:16	4:19	4:23	4:26
4:30	4:33	4:36	4:39	4:41	4:44	4:46	4:49	4:53	4:56
5:00	5:03	5:06	5:09	5:11	5:14	5:16	5:19	5:23	5:26
5:30	5:33	5:36	5:39	5:41	5:44	5:46	5:49	5:53	5:56
6:00	6:03	6:06	6:09	6:11	6:14	6:16	6:19	6:23	6:26
6:30	6:33	6:36	6:39	6:41	6:44	6:46	6:49	6:53	6:56*

### HARBOR POINT PROJECT PHASE 2

### Highlights:

- Projected Implementation: Fall 2012
- 1000 housing units
- Purchase 1 additional bus (total 3 plus 1 spare)
- Hire 2 additional new bus operators (total 4)
- Improved "peak of peak" service on Route H1
- Improved "peak of peak" service on Route H2
- Midday service begins on Route H3

### Route H1: Harbor Point - Stamford Railroad Station

Route H1 will operate on the same route and during the same hours as described in Phase 1. However, in order to accommodate as many customers as possible during the height of the morning and afternoon peak, service will increase from every 15 minutes to every 10 minutes from 6:00AM to 7:44AM and from 5:50PM to 8:07PM. To achieve this, one additional bus will be required, which will be shared with Route H2 and will also be used to operate Route H3 (see below).

### Route H2: Harbor Point - Downtown Stamford

Route H2 will operate on the same route and during the same hours as described in Phase 1. However, in order to accommodate as many customers as possible during the height of the morning and afternoon peak, service will increase from every 30 minutes to every 15 minutes from 7:30AM to 9:04AM and from 3:45PM to 5:56PM. To achieve this, the additional bus added to Route H1 will switch from Route H1 to Route H2 at approximately 7:45AM. This additional bus will start out on Route H2 in the afternoon and will switch back to Route H1 at approximately 6:00PM. This additional bus will also be used to operate Route H3 (see below).

### Route H3: Harbor Point – Shopping & Entertainment Loop

Route H3 will provide a midday link between Harbor Point, Yale & Towne, Stamford's downtown shopping, business & entertainment district, Rippowam Shopping Center and the Bulls Head shopping area (Home Goods, Lord & Taylor, etc.). One bus will be used to operate Route H3 at a 45-minute headway from 9:00AM to 3:41PM while Routes H1 & H2 are not in operation. Although Route H3 will be geared toward shopping and other non-commute trips, the route will also accommodate riders of Routes H1 & H2 in need of midday service to or from the Stamford Railroad Station/Transportation Center or Stamford's CBD.

### Midday Route

Route H3 begins at the Harbor Point Transit Hub and makes local stops along Pacific Street en route to the main bus stop at Yale & Towne on Pacific Street.

From Yale & Towne, Route H3 follows the Stamford Urban Transitway to Atlantic Street then continues to the Stamford Transportation Center via North State Street, stopping at the intercity bus stop to drop off passengers connecting with buses and trains (passengers making train connections will be able to access the Railroad Station via the North State Street passageway).

From the Transportation Center, Route H3 makes a loop through Stamford via Washington Boulevard, Main Street, Atlantic Street, Bedford Street, Long Ridge Road, Cold Spring Road, High Ridge Road, Summer Street, Broad Street, Greyrock Place, Tresser Boulevard, Atlantic Street, North State Street and back to the Transportation Center.

From the Transportation Center, Route H3 follows the same route as the afternoon route for Route H1, serving the South State Street bus stop at the Stamford Railroad Station then returning to Yale & Towne and the Harbor Point Transit Hub via the Stamford Urban Transitway and Pacific Street.

# HARBOR POINT: PHASE 2 PRELIMINARY SCHEDULE

	MOF	RNING SCHED	ULE			AFTE	ERNOON SCHEI	DULE	
	1	Stamford	Stamford		Stamford	Stamford			Stamford
Harbor Point	Yale & Towne	Station	Transportation	Harbor Point	Transportation	Station	Yale & Towne	Harbor Point	Transportation
Transit Hub	Pacific St	Station PI	Center	Transit Hub	Center	Station PI	Pacific St	Transit Hub	Center
5:30*	5:33	5:36	5:38	5:44	3:00*	3:01	3:04	3:07	3:13
5:45	5:48	5:51	5:53	5:59	3:15	3:16	3:19	3:22	3:28
6:00	6:03	6:06	6:08	6:14	3:30	3:31	3:34	3:37	3:43
6:10*	6:13	6:16	6:18	6:24	3:45	3:46	3:49	3:52	3:58
6:20	6:23	6:26	6:28	6:34	4:00	4:01	4:04	4:07	4:13
6:30	6:33	6:36	6:38	6:44	4:15	4:16	4:19	4:22	4:28
6:40	6:43	6:46	6:48	6:54	4:30	4:31	4:34	4:37	4:43
6:50	6:53	6:56	6:58	7:04	4:45	4:46	4:49	4:52	4:58
7:00	7:03	7:06	7:08	7:14	5:00	5:01	5:04	5:07	5:13
7:10	7:13	7:16	7:18	7:24	5:15	5:16	5:19	5:22	5:28
7:20	7:23	7:26	7:28	7:34	5:30	5:31	5:34	5:37	5:43
7:30	7:33	7:36	7:38	7:44	5:45	5:46	5:49	5:52	5:58
7:45	7:48	7:51	7:53	7:59	6:00	6:01	6:04	6:07	6:13
8:00	8:03	8:06	8:08	8:14	6:10	6:11	6:14	6:17	6:23
8:15	8:18	8:21	8:23	8:29	6:20	6:21	6:24	6:27	6:33
8:30	8:33	8:36	8:38	8:44	6:30	6:31	6:34	6:37	6:43
8:45	8:48	8:51	8:53	8:59	6:40	6:41	6:44	6:47	6:53
9:00	9:03	9:06	9:08	9:14	6:50	6:51	6:54	6:57	7:03
9:15	9:18	9:21	9:23	9:29	7:00	7:01	7:04	7:07	7:13
9:30	9:33	9:36	9:38*		7:10	7:11	7:14	7:17	7:23
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					7:30	7:31	7:34	7:37	7:43
					7:40	7:41	7:44	7:47	7:53
					7:50	7:51	7:54	7:57*	
					8:00	8:01	8:04	8:07	8:13
					8:15	8:16	8:19	8:22	8:28
					8:30	8:31	8:34	8:37	8:43
					8:45	8:46	8:49	8:52	8:58
					9:00	9:01	9:04	9:07*	

# HARBOR POINT: PHASE 2 PRELIMINARY SCHEDULE

H2 DOWNT	T T								
Harbor Point	Yale & Towne	Atlantic &	Broad &	Bedford &	2nd &	Summer &	Main &	Yale & Towne	Harbor Poin
Transit Hub	Pacific St	Tresser	Grove	Forest	Bedford	Hoyt	Atlantic	Pacific St	Transit Hub
6:00*	6:03	6:06	6:09	6:11	6:14	6:16	6:19	6:23	6:26
6:30	6:33	6:36	6:39	6:41	6:44	6:46	6:49	6:53	6:56
7:00	7:03	7:06	7:09	7:11	7:14	7:16	7:19	7:23	7:26
7:30	7:33	7:36	7:39	7:41	7:44	7:46	7:49	7:53	7:56
7:45	7:48	7:51	7:54	7:56	7:59	8:01	8:04	8:08	8:11
8:00	8:03	8:06	8:09	8:11	8:14	8:16	8:19	8:23	8:26
8:15	8:18	8:21	8:24	8:26	8:29	8:31	8:34	8:38	8:41
8:30	8:33	8:36	8:39	8:41	8:44	8:46	8:49	8:53	8:56
8:45	8:48	8:51	8:54	8:56	8:59	9:01	9:04*		
		3:21*	3:24	3:26	3:29	3:31	3:34	3:38	3:41
3:45	3:48	3:51	3:54	3:56	3:59	4:01	4:04	4:08	4:11
4:00	4:03	4:06	4:09	4:11	4:14	4:16	4:19	4:23	4:26
4:15	4:18	4:21	4:24	4:26	4:29	4:31	4:34	4:38	4:41
4:30	4:33	4:36	4:39	4:41	4:44	4:46	4:49	4:53	4:56
4:45	4:48	4:51	4:54	4:56	4:59	5:01	5:04	5:08	5:11
5:00	5:03	5:06	5:09	5:11	5:14	5:16	5:19	5:23	5:26
5:15	5:18	5:21	5:24	5:26	5:29	5:31	5:34	5:38	5:41
5:30	5:33	5:36	5:39	5:41	5:44	5:46	5:49	5:53	5:56
6:00	6:03	6:06	6:09	6:11	6:14	6:16	6:19	6:23	6:26
6:30	6:33	6:36	6:39	6:41	6:44	6:46	6:49	6:53	6:56*

# HARBOR POINT: PHASE 2 PRELIMINARY SCHEDULE

НЗ ЅНОРР	<u> </u>	Ctamford		Dideever		Dideaman		Ctamford		
		Stamford		Ridgeway		Ridgeway		Stamford		
Harbor Point	Yale & Towne	Transportation	Main &	Shopping Ctr	High Ridge &	Shopping Ctr	Broad &	Transportation	Yale & Towne	Harbor Point
Transit Hub	Pacific St	Center	Washington	Bedford St	Cold Spring	Summer St	Greyrock	Center	Pacific St	Transit Hub
9:00	9:03	9:06	9:09	9:16	9:20	9:22	9:29	9:34	9:38	9:41
9:45	9:48	9:51	9:54	10:01	10:05	10:07	10:14	10:19	10:23	10:26
10:30	10:33	10:36	10:39	10:46	10:50	10:52	10:59	11:04	11:08	11:11
11:15	11:18	11:21	11:24	11:31	11:35	11:37	11:44	11:49	11:53	11:56
12:00	12:03	12:06	12:09	12:16	12:20	12:22	12:29	12:34	12:38	12:41
12:45	12:48	12:51	12:54	1:01	1:05	1:07	1:14	1:19	1:23	1:26
1:30	1:33	1:36	1:39	1:46	1:50	1:52	1:59	2:04	2:08	2:11
2:15	2:18	2:21	2:24	2:31	2:35	2:37	2:44	2:49	2:53	2:56
3:00	3:03	3:06	3:09	3:16	3:20	3:22	3:29	3:34	3:38	3:41

### HARBOR POINT PROJECT PHASE 3

### Highlights:

- Projected Implementation: Fall 2014
- 1500 housing units
- Purchase 1 additional bus (total 4 plus 1 spare)
- Hire 3 additional new bus operators (total 7)
- More improved peak service, midday service, and night service on Route H1
- More improved peak service on Route H2
- More direct midday service, and night service on Route H3

### Route H1: Harbor Point - Stamford Railroad Station

Route H1 will operate on the same route as described in Phase 1. However, service will increase to every 10 minutes during the entire morning and afternoon peak periods. To achieve this, the additional bus added in Phase 2 will no longer be shared with Routes H2 & H3. In addition, Route H1 will be extended to operate through the midday and until 12:07AM at a 20-minute headway. Route H1 will follow the morning route, outlined in Phase 1, until 11:58AM then begin following the afternoon route at 12:10PM.

### Route H2: Harbor Point - Downtown Stamford

Route H2 will operate on the same route and during the same hours as described in Phase 1. However, service will increase to every 15 minutes during the entire morning and afternoon peak periods. Since the shared bus which was used to increase service on Route H2 in Phase 2 will no longer be available, one additional bus will be required to achieve this. However, the additional bus on Route H2 will continue to be shared with Route H3 during the midday and in the evening (see below).

### Route H3: Harbor Point – Shopping & Entertainment Loop

With the addition of midday and night service on Route H1, Route H3 will no longer need to serve the Stamford Railroad Station/Transportation Center complex. As a result, the route will be modified to provide more direct service to Stamford's shopping & entertainment district. One bus will be used to operate Route H3 at a 45-minute headway from 9:00AM to 3:37PM while Route H2 is not in operation. Route H3 will also continue to accommodate riders of Route H2 in need of midday or evening service to or from Stamford's CBD.

### Revised Midday & Evening Route

Route H3 begins at the Harbor Point Transit Hub and makes local stops along Pacific Street en route to the main bus stop at Yale & Towne on Pacific Street.

From Yale & Towne, Route H3 follows the Stamford Urban Transitway to Atlantic Street then makes a loop through Stamford via Tresser Boulevard, Washington Boulevard, Main Street, Atlantic Street, Bedford Street, Long Ridge Road, Cold Spring Road, High Ridge Road, Summer Street, Broad Street, Greyrock Place, Tresser Boulevard and back to Atlantic Street.

From Atlantic Street, Route H3 returns to Yale & Towne and the Harbor Point Transit Hub via the Stamford Urban Transitway and Pacific Street.

# HARBOR POINT: PHASE 3 PRELIMINARY SCHEDULE

	AD STATION								
	MOR	NING SCHED	ULE			AFTI	ERNOON SCHE	DULE	
		Stamford	Stamford		Stamford	Stamford			Stamfor
larbor Point	Yale & Towne	Station	Transportation	Harbor Point	Transportation	Station	Yale & Towne	Harbor Point	Station
ransit Hub	Pacific St	Station PI	Center	Transit Hub	Center	Station PI	Pacific St	Transit Hub	Station I
5:30*	5:33	5:36	5:38	5:44	12:10	12:11	12:14	12:17	12:23
5:40*	5:43	5:46	5:48	5:54	12:30	12:31	12:34	12:37	12:43
5:50	5:53	5:56	5:58	6:04	12:50	12:51	12:54	12:57	1:03
6:00	6:03	6:06	6:08	6:14	1:10	1:11	1:14	1:17	1:23
6:10	6:13	6:16	6:18	6:24	1:30	1:31	1:34	1:37	1:43
6:20	6:23	6:26	6:28	6:34	1:50	1:51	1:54	1:57	2:03
6:30	6:33	6:36	6:38	6:44	2:10	2:11	2:14	2:17	2:23
6:40	6:43	6:46	6:48	6:54	2:30	2:31	2:34	2:37	2:43
6:50	6:53	6:56	6:58	7:04	2:50	2:51	2:54	2:57	3:03
7:00	7:03	7:06	7:08	7:14	3:00*	3:01	3:04	3:07	3:13
7:10	7:13	7:16	7:18	7:24	3:10	3:11	3:14	3:17	3:23
7:20	7:23	7:26	7:28	7:34	3:20	3:21	3:24	3:27	3:33
7:30	7:33	7:36	7:38	7:44	3:30	3:31	3:34	3:37	3:43
7:40	7:43	7:46	7:48	7:54	3:40	3:41	3:44	3:47	3:53
7:50	7:53	7:56	7:58	8:04	3:50	3:51	3:54	3:57	4:03
8:00	8:03	8:06	8:08	8:14	4:00	4:01	4:04	4:07	4:13
8:10	8:13	8:16	8:18	8:24	4:10	4:11	4:14	4:17	4:23
8:20	8:23	8:26	8:28	8:34	4:20	4:21	4:24	4:27	4:33
8:30	8:33	8:36	8:38	8:44	4:30	4:31	4:34	4:37	4:43
8:40	8:43	8:46	8:48	8:54	4:40	4:41	4:44	4:47	4:53
8:50	8:53	8:56	8:58	9:04	4:40 4:50	4.41 4:51	4: <del>44</del> 4:54	4.47 4:57	5:03
9:00	6.53 9:03	9:06	9:08	9:04 9:14	5:00	4.51 5:01	4.5 <del>4</del> 5:04	4.57 5:07	5.03 5:13
9:10									
	9:13	9:16	9:18	9:24	5:10 5:20	5:11	5:14 5:24	5:17 5:27	5:23
9:20	9:23	9:26	9:28*		5:20	5:21	5:24	5:27	5:33
9:30	9:33	9:36	9:38	9:44	5:30	5:31	5:34	5:37	5:43
9:50	9:53	9:56	9:58	10:04	5:40	5:41	5:44	5:47	5:53
10:10	10:13	10:16	10:18	10:24	5:50	5:51	5:54	5:57	6:03
10:30	10:33	10:36	10:38	10:44	6:00	6:01	6:04	6:07	6:13
10:50	10:53	10:56	10:58	11:04	6:10	6:11	6:14	6:17	6:23
11:10	11:13	11:16	11:18	11:24	6:20	6:21	6:24	6:27	6:33
11:30	11:33	11:36	11:38	11:44	6:30	6:31	6:34	6:37	6:43
11:50	11:53	11:56	11:58		6:40	6:41	6:44	6:47	6:53
					6:50	6:51	6:54	6:57	7:03
					7:00	7:01	7:04	7:07	7:13
					7:10	7:11	7:14	7:17	7:23
					7:20	7:21	7:24	7:27	7:33
					7:30	7:31	7:34	7:37	7:43
					7:40	7:41	7:44	7:47	7:53
					7:50	7:51	7:54	7:57	8:03
					8:00	8:01	8:04	8:07	8:13
					8:10	8:11	8:14	8:17	8:23
					8:20	8:21	8:24	8:27	8:33
					8:30	8:31	8:34	8:37	8:43
					8:40	8:41	8:44	8:47	8:53
					8:50	8:51	8:54	8:57	
					9:00	9:01	9:04	9:07	9:13
					9:20	9:21	9:24	9:27	9:33
					9:40	9:41	9:44	9:47	9:53
					10:00	10:01	10:04	10:07	10:13
					10:20	10:21	10:24	10:27	10:33
					10:40	10:41	10:44	10:47	10:53
					11:00	11:01	11:04	11:07	11:13
					11:20	11:21	11:24	11:27	11:33
					11:40	11:41	11:44	11:47	11:53
					12:00	12:01	12:04	12:07*	

# HARBOR POINT: PHASE 3 PRELIMINARY SCHEDULE

H2 DOWNT	TOWN LOOP								
Harbor Point	Yale & Towne	Atlantic &	Broad &	Bedford &	2nd &	Summer &	Main &	Yale & Towne	Harbor Poin
Transit Hub	Pacific St	Tresser	Grove	Forest	Bedford	Hoyt	Atlantic	Pacific St	Transit Hub
6:00*	6:04	6:07	6:10	6:12	6:15	6:17	6:20	6:24	6:28
6:15*	6:19	6:22	6:25	6:27	6:30	6:32	6:35	6:39	6:43
6:30	6:34	6:37	6:40	6:42	6:45	6:47	6:50	6:54	6:58
6:45	6:49	6:52	6:55	6:57	7:00	7:02	7:05	7:09	7:13
7:00	7:04	7:07	7:10	7:12	7:15	7:17	7:20	7:24	7:28
7:15	7:19	7:22	7:25	7:27	7:30	7:32	7:35	7:39	7:43
7:30	7:34	7:37	7:40	7:42	7:45	7:47	7:50	7:54	7:58
7:45	7:49	7:52	7:55	7:57	8:00	8:02	8:05	8:09	8:13
8:00	8:04	8:07	8:10	8:12	8:15	8:17	8:20	8:24	8:28
8:15	8:19	8:22	8:25	8:27	8:30	8:32	8:35	8:39	8:43
8:30	8:34	8:37	8:40	8:42	8:45	8:47	8:50	8:54	8:58
8:45	8:49	8:52	8:55	8:57	9:00	9:02	9:05*		
		3:22*	3:25	3:27	3:30	3:32	3:35	3:39	3:43
3:45	3:49	3:52	3:55	3:57	4:00	4:02	4:05	4:09	4:13
4:00	4:04	4:07	4:10	4:12	4:15	4:17	4:20	4:24	4:28
4:15	4:19	4:22	4:25	4:27	4:30	4:32	4:35	4:39	4:43
4:30	4:34	4:37	4:40	4:42	4:45	4:47	4:50	4:54	4:58
4:45	4:49	4:52	4:55	4:57	5:00	5:02	5:05	5:09	5:13
5:00	5:04	5:07	5:10	5:12	5:15	5:17	5:20	5:24	5:28
5:15	5:19	5:22	5:25	5:27	5:30	5:32	5:35	5:39	5:43
5:30	5:34	5:37	5:40	5:42	5:45	5:47	5:50	5:54	5:58
5:45	5:49	5:52	5:55	5:57	6:00	6:02	6:05	6:09	6:13
6:15	6:19	6:22	6:25	6:27	6:30	6:32	6:35	6:39	6:43
6:45	6:49	6:52	6:55	6:57	7:00	7:02	7:05	7:09	7:13*

# HARBOR POINT: PHASE 3 PRELIMINARY SCHEDULE

				Ridgeway		Ridgeway				
Harbor Point	Yale & Towne	Atlantic &	Main &	Shopping Ctr	High Ridge &	Shopping Ctr	Broad &	Atlantic &	Yale & Towne	Harbor Point
Transit Hub	Pacific St	Tresser	Washington	Bedford St	Cold Spring	Summer St	Greyrock	Tresser	Pacific St	Transit Hub
9:00	9:03	9:06	9:08	9:15	9:19	9:21	9:28	9:31	9:34	9:37
9:45	9:48	9:51	9:53	10:00	10:04	10:06	10:13	10:16	10:19	10:22
10:30	10:33	10:36	10:38	10:45	10:49	10:51	10:58	11:01	11:04	11:07
11:15	11:18	11:21	11:23	11:30	11:34	11:36	11:43	11:46	11:49	11:52
12:00	12:03	12:06	12:08	12:15	12:19	12:21	12:28	12:31	12:34	12:37
12:45	12:48	12:51	12:53	1:00	1:04	1:06	1:13	1:16	1:19	1:22
1:30	1:33	1:36	1:38	1:45	1:49	1:51	1:58	2:01	2:04	2:07
2:15	2:18	2:21	2:23	2:30	2:34	2:36	2:43	2:46	2:49	2:52
3:00	3:03	3:06	3:08	3:15	3:19	3:21	3:28	3:31	3:34	3:37
6:00	6:03	6:06	6:08	6:15	6:19	6:21	6:28	6:31	6:34	6:37
6:45	6:48	6:51	6:53	7:00	7:04	7:06	7:13	7:16	7:19	7:22
7:30	7:33	7:36	7:38	7:45	7:49	7:51	7:58	8:01	8:04	8:07
8:15	8:18	8:21	8:23	8:30	8:34	8:36	8:43	8:46	8:49	8:52
9:00	9:03	9:06	9:08	9:15	9:19	9:21	9:28	9:31	9:34	9:37
9:45	9:48	9:51	9:53	10:00	10:04	10:06	10:13	10:16	10:19	10:22
10:30	10:33	10:36	10:38	10:45	10:49	10:51	10:58	11:01	11:04	11:07
11:15	11:18	11:21	11:23	11:30	11:34	11:36	11:43	11:46	11:49	11:52

### HARBOR POINT PROJECT PHASE 4

### Highlights:

- Projected Implementation: Fall 2016
- 2500 housing units
- Purchase 1 additional bus (total 5 plus 1 spare)
- Hire 2 additional new bus operators (total 9)
- More improved morning "peak of peak" service on Route H1
- More improved morning "peak of peak" service on Route H2
- New afternoon service on Route H3

### Route H1: Harbor Point - Stamford Railroad Station

Route H1 will operate on the same route and during the same hours as described in Phase 3. However, service will increase to every 6 minutes during the height of the morning peak period from 6:00AM to 7:42AM. To achieve this, one additional bus will be required, which will be shared with Routes H2 & H3 (see below).

### Route H2: Harbor Point – Downtown Stamford

Route H2 will operate on the same route and during the same hours as described in Phase 1. However, service will increase to every 10 minutes during the height of the morning peak period from 7:00AM to 9:18AM. To achieve this, the additional bus added to Route H1 will switch from Route H1 to Route H2 at approximately 7:30AM. This additional bus will also be used to operate midday and afternoon service on Route H3 (see below).

### Route H3: Harbor Point – Shopping & Entertainment Loop

Route H1 will operate on the same route as described in Phase 3. However, Route H3 will now operate every 30 minutes during the midday and every 45 minutes throughout the afternoon and evening. Route H3 will also continue to accommodate riders of Route H2 in need of midday or evening service to or from Stamford's CBD.

# HARBOR POINT: PHASE 4 PRELIMINARY SCHEDULE

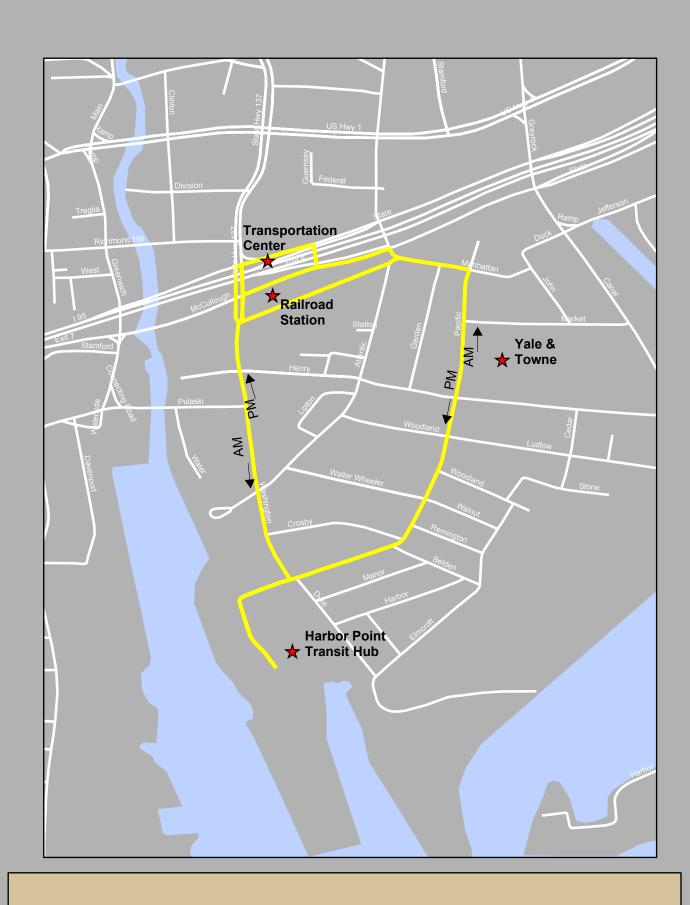
	DAD STATION :	NING SCHED	III F			ΔFT	ERNOON SCHE	DIII F	
	I	Stamford	Stamford		Stamford	Stamford	I	l I	Stamford
Harbor Point	Yale & Towne	Station	Transportation	Harbor Point	Transportation	Station	Yale & Towne	Harbor Point	Station
Transit Hub	Pacific St	Station PI	Center	Transit Hub	Center	Station Pl	Pacific St	Transit Hub	Station F
5:30*	5:33	5:36	5:38	5:44	12:10	12:11	12:14	12:17	12:23
5:40*	5:43	5:46	5:48	5:54	12:30	12:31	12:34	12:37	12:43
5:50	5:53	5:56	5:58	6:04	12:50	12:51	12:54	12:57	1:03
6:00	6:03	6:06	6:08	6:0 <del>4</del> 6:14	1:10	1:11	1:14	12.57	1:03
6:06									
	6:09	6:12	6:14	6:20	1:30	1:31	1:34	1:37	1:43
6:12* 6:18	6:15	6:18	6:20	6:26	1:50	1:51	1:54	1:57	2:03
	6:21	6:24	6:26	6:32	2:10	2:11	2:14	2:17	2:23
6:24	6:27	6:30	6:32	6:38	2:30	2:31	2:34	2:37	2:43
6:30	6:33	6:36	6:38	6:44	2:50	2:51	2:54	2:57	3:03
6:36	6:39	6:42	6:44	6:50	3:00*	3:01	3:04	3:07	3:13
6:42	6:45	6:48	6:50	6:56	3:10*	3:11	3:14	3:17	3:23
6:48	6:51	6:54	6:56	7:02	3:20	3:21	3:24	3:27	3:33
6:54	6:57	7:00	7:02	7:08	3:30	3:31	3:34	3:37	3:43
7:00	7:03	7:06	7:08	7:14	3:40	3:41	3:44	3:47	3:53
7:06	7:09	7:12	7:14	7:20	3:50	3:51	3:54	3:57	4:03
7:12	7:15	7:18	7:20	7:26	4:00	4:01	4:04	4:07	4:13
7:18	7:21	7:24	7:26	7:32	4:10	4:11	4:14	4:17	4:23
7:24	7:27	7:30	7:32	7:38	4:20	4:21	4:24	4:27	4:33
7:30	7:33	7:36	7:38	7:44	4:30	4:31	4:34	4:37	4:43
7:40	7:43	7:46	7:48	7:54	4:40	4:41	4:44	4:47	4:53
7:50	7:53	7:56	7:58	8:04	4:50	4:51	4:54	4:57	5:03
8:00	8:03	8:06	8:08	8:14	5:00	5:01	5:04	5:07	5:13
8:10	8:13	8:16	8:18	8:24	5:10	5:11	5:14	5:17	5:23
8:20	8:23	8:26	8:28	8:34	5:20	5:21	5:24	5:27	5:33
8:30	8:33	8:36	8:38	8:44	5:30	5:31	5:34	5:37	5:43
8:40	8:43	8:46	8:48	8:54	5:40	5:41	5:44	5:47	5:53
8:50	8:53	8:56	8:58	9:04	5:50	5:51	5:54	5:57	6:03
9:00	9:03	9:06	9:08	9:14	6:00	6:01	6:04	6:07	6:13
9:10	9:13	9:16	9:18	9:24	6:10	6:11	6:14	6:17	6:23
9:20	9:23	9:26	9:28*		6:20	6:21	6:24	6:27	6:33
9:30	9:33	9:36	9:38	9:44	6:30	6:31	6:34	6:37	6:43
9:50	9:53	9:56	9:58	10:04	6:40	6:41	6:44	6:47	6:53
10:10	10:13	10:16	10:18	10:24	6:50	6:51	6:54	6:57	7:03
10:30	10:33	10:36	10:38	10:44	7:00	7:01	7:04	7:07	7:13
10:50	10:53	10:56	10:58	11:04	7:10	7:11	7:14	7:17	7:23
11:10	11:13	11:16	11:18	11:24	7:20	7:21	7:24	7:27	7:33
11:30	11:33	11:36	11:38	11:44	7:30	7:31	7:34	7:37	7:43
11:50	11:53	11:56	11:58		7:40	7:41	7:44	7:47	7:53
11.00	11.00	11.50	11.50		7:50	7: <del>5</del> 1	7:54	7:57	8:03
					8:00	8:01	8:04	8:07	8:13
					8:10	8:11	8:14	8:17	8:23
					8:20	8:21	8:24	8:27	8:33
					8:30	8:31	8:34	8:37	8:43
					8:40	8:41	8:44	8:47	8:53
					8:50	8:51	8:54	8:57*	0:40
					9:00	9:01	9:04	9:07	9:13
					9:20	9:21	9:24	9:27	9:33
					9:40	9:41	9:44	9:47	9:53
					10:00	10:01	10:04	10:07	10:13
					10:20	10:21	10:24	10:27	10:33
					10:40	10:41	10:44	10:47	10:53
					11:00	11:01	11:04	11:07	11:13
					11:20	11:21	11:24	11:27	11:33
					11:40	11:41	11:44	11:47	11:53
					12:00	12:01	12:04	12:07*	

# HARBOR POINT: PHASE 4 PRELIMINARY SCHEDULE

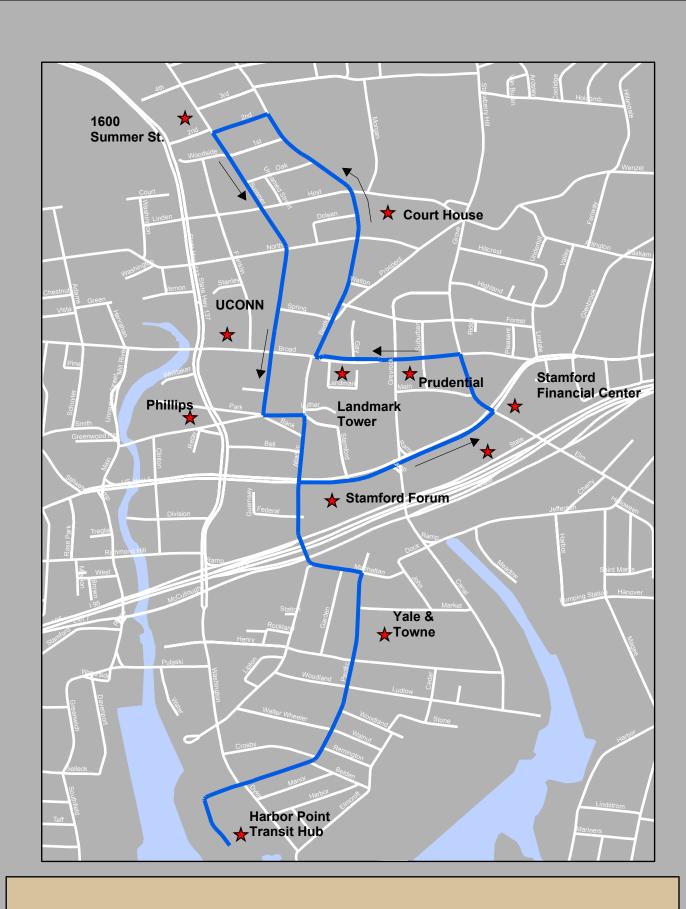
H2 DOWN	OWN LOOP								
Harbor Point Transit Hub	Yale & Towne Pacific St	Atlantic & Tresser	Broad & Grove	Bedford & Forest	2nd & Bedford	Summer & Hoyt	Main & Atlantic	Yale & Towne Pacific St	Harbor Poin
6:00*	6:04	6:07	6:10	6:12	6:15	6:17	6:20	6:24	6:28
6:15*	6:19	6:22	6:25	6:27	6:30	6:32	6:35	6:39	6:43
6:30	6:34	6:37	6:40	6:42	6:45	6:47	6:50	6:54	6:58
6:45	6:49	6:52	6:55	6:57	7:00	7:02	7:05	7:09	7:13
7:00	7:04	7:07	7:10	7:12	7:15	7:17	7:20	7:24	7:28
7:15	7:19	7:22	7:25	7:27	7:30	7:32	7:35	7:39	7:43
7:30	7:34	7:37	7:40	7:42	7:45	7:47	7:50	7:54	7:58
7:40	7:44	7:47	7:50	7:52	7:55	7:57	8:00	8:04	8:08
7:50	7:54	7:57	8:00	8:02	8:05	8:07	8:10	8:14	8:18
8:00	8:04	8:07	8:10	8:12	8:15	8:17	8:20	8:24	8:28
8:10	8:14	8:17	8:20	8:22	8:25	8:27	8:30	8:34	8:38
8:20	8:24	8:27	8:30	8:32	8:35	8:37	8:40	8:44	8:48
8:30	8:34	8:37	8:40	8:42	8:45	8:47	8:50	8:54	8:58
8:40	8:44	8:47	8:50	8:52	8:55	8:57	9:00	9:04	9:08
8:50	8:54	8:57	9:00	9:02	9:05	9:07	9:10	9:14	9:18
9:10	9:14	9:17	9:20	9:22	9:25	9:27	9:30*		
		3:07*	3:10	3:12	3:15	3:17	3:20	3:24	3:28
3:30	3:34	3:37	3:40	3:42	3:45	3:47	3:50	3:54	3:58
3:45	3:49	3:52	3:55	3:57	4:00	4:02	4:05	4:09	4:13
4:00	4:04	4:07	4:10	4:12	4:15	4:17	4:20	4:24	4:28
4:15	4:19	4:22	4:25	4:27	4:30	4:32	4:35	4:39	4:43
4:30	4:34	4:37	4:40	4:42	4:45	4:47	4:50	4:54	4:58
4:45	4:49	4:52	4:55	4:57	5:00	5:02	5:05	5:09	5:13
5:00	5:04	5:07	5:10	5:12	5:15	5:17	5:20	5:24	5:28
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6:30	6:34	6:37	6:40	6:42	6:45	6:47	6:50	6:54	6:58*
6:45	6:49	6:52	6:55	6:57	7:00	7:02	7:05	7:09	7:13*

# HARBOR POINT: PHASE 4 PRELIMINARY SCHEDULE

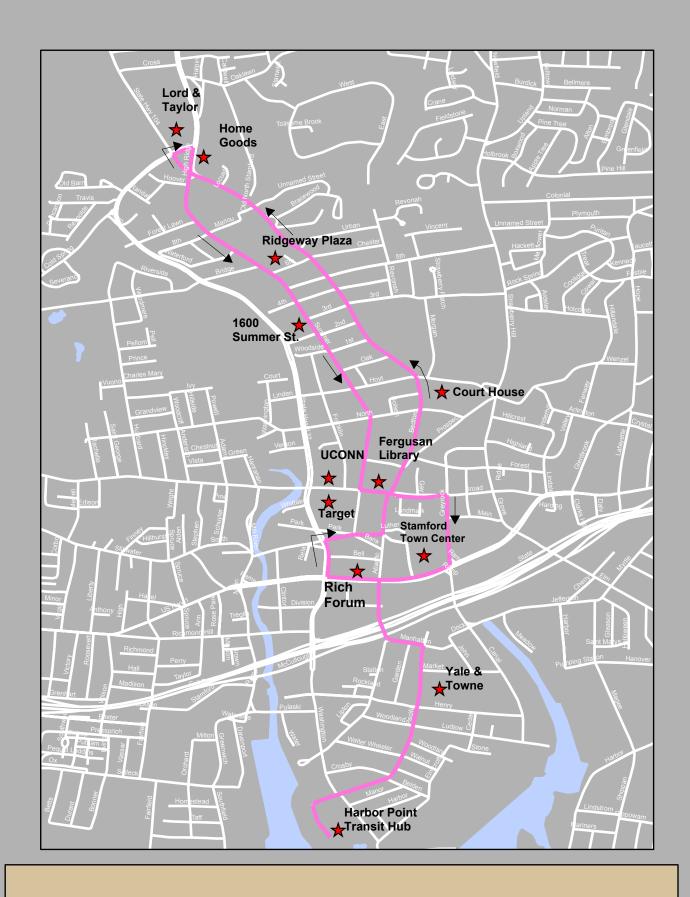
				Ridgeway		Ridgeway				
Harbor Point	Yale & Towne	Atlantic &	Main &	Shopping Ctr	High Ridge &	Shopping Ctr	Broad &	Atlantic &	Yale & Towne	Harbor Point
Transit Hub	Pacific St	Tresser	Washington	Bedford St	Cold Spring	Summer St	Greyrock	Tresser	Pacific St	Transit Hub
9:00	9:03	9:06	9:08	9:15	9:19	9:21	9:28	9:31	9:34	9:37
9:30	9:33	9:36	9:38	9:45	9:49	9:51	9:58	10:01	10:04	10:07
10:00	10:03	10:06	10:08	10:15	10:19	10:21	10:28	10:31	10:34	10:37
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2:00	2:03	2:06	2:08	2:15	2:19	2:21	2:28	2:31	2:34	2:37
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5:15	5:18	5:21	5:23	5:30	5:34	6:21	6:28	6:31	6:34	6:37
6:00	6:03	6:06	6:08	6:15	6:19	7:21	7:28	7:31	7:34	7:37
6:45	6:48	6:51	6:53	7:00	7:04	7:06	7:13	7:16	7:19	7:22
7:30	7:33	7:36	7:38	7:45	7:49	7:51	7:58	8:01	8:04	8:07
8:15	8:18	8:21	8:23	8:30	8:34	8:36	8:43	8:46	8:49	8:52
9:00	9:03	9:06	9:08	9:15	9:19	9:21	9:28	9:31	9:34	9:37
9:45	9:48	9:51	9:53	10:00	10:04	10:06	10:13	10:16	10:19	10:22
10:30	10:33	10:36	10:38	10:45	10:49	10:51	10:58	11:01	11:04	11:07
11:15	11:18	11:21	11:23	11:30	11:34	11:36	11:43	11:46	11:49	11:52*



**H1-RAILROAD STATION SHUTTLE** 



# **H2-DOWNTOWN SHUTTLE**



**H3-SHOPPING & ENTERTAINMENT SHUTTLE** 

# HARBOR POINT PROJECT: OPERATING COST ESTIMATE

	Γ	Dhasa 1	Phase 2	Dhoon 2	Dhasa 4
		Phase 1 575 Units	1000 Units	Phase 3 1500 Units	Phase 4 2500 Units
Number of Vehicle	es	2	3	4	5
H1 RAILROA	D STATIO	N SHUTTLE			
Service Ho	urs	5:30AM to 9:38AM & 3:00PM to 9:07PM	5:30AM to 9:38AM & 3:00PM to 9:07PM	5:30AM to 12:07AM	5:30AM to 12:07AM
Peak Head	way	15	10 / 15	10	6 / 10
Trips		42	49	87	93
RT Route L	.ength	2.45	2.45	2.45	2.45
RT Running	g Time	13 to 14 mins	13 to 14 mins	13 to 14 mins	13 to 14 mins
Service Mile	es	108.10	128.45	221.55	237.85
Pay Hours		10.75	14.45	29.20	30.50
Operating (	Cost				
Dail	y*	\$640.74	\$820.98	\$1,568.15	\$1,653.35
Ann	ually*	\$163,387.81	\$209,350.41	\$399,877.87	\$421,603.36
H2 DOWNTO	WN SHUT	TLE			
Service Ho	urs	6:00AM to 9:19AM & 3:06PM to 6:56PM	6:00AM to 9:04AM & 3:21PM to 6:56PM	6:00AM to 9:05AM & 3:07PM to 7:13PM	6:00AM to 9:00AM 8 3:00PM to 7:00PM
Peak Head	way	30	15 / 30	15	10 / 15
Trips	-	15	21	24	31
RT Route L	ength.	5.05	5.05	5.05	5.05
RT Running	g Time	26 mins	26 mins	26 mins	26 mins
Service Mile	es	78.95	111.25	128.00	164.95
Pay Hours		7.65	10.57	12.60	16.23
Operating (	Cost				
Dail	y*	\$460.80	\$641.86	\$754.10	\$971.53
Ann	ually*	\$117,504.26	\$163,674.91	\$192,296.01	\$247,740.56
H3 SHOPPIN	G & ENTE	RTAINMENT SHUT	TLE		
Service Ho	urs		9:00AM to 3:41PM	9:00AM to 3:37PM & 6:00PM to 11:52PM	9:00AM to 11:52PM
Peak Head	way		45	45	30 / 45
Trips			9	17	24
RT Route L	.ength		7.70	6.80	6.80
RT Running	g Time		41 mins	37 mins	37 mins
Service Mile	es		69.30	117.20	164.80
Pay Hours			7.00	12.78	21.28
Operating (	Cost				
Dail	y*		\$414.62	\$734.69	\$1,150.80
Ann	ually*		\$105,727.34	\$187,346.61	\$293,454.41
TOTAL CO	CT*	¢200 002 0C	\$478,752.66	\$779,520.49	\$962,798.32
IOIALCO	31"	\$280,892.06	Ψ-7 0,7 32.00	Ψ113,520. <del>4</del> 3	φυσ <b>Ξ</b> ,, υσ.σΞ
TOTAL CO	31"	2010	2012	2014	2016

<sup>\*</sup> Cost assumptions are based on the following unit costs as of July 1, 2008: \$2.39 per Service Mile

<sup>\$35.57</sup> per Pay Hour (adjusted for fringe benefits)

<sup>\*\*</sup> Adjusted cost based on 5% increase in overall operating cost per year.

# HARBOR POINT PROJECT VEHICLE REQUIREMENTS

For full deployment of the Harbor Point shuttle services, six 30-foot, heavy-duty, low-floor transit buses will be required. This includes five buses to be used to operate the service plus one spare bus to facilitate the performance of scheduled and unscheduled maintenance. Three of these buses (two plus one spare) will need to be acquired before Phase 1 is implemented in Fall 2010. All vehicles will be stored and maintained at CTTRANSIT Stamford's bus depot.

The basic specifications of the buses should include:

- 30-foot, heavy-duty transit buses
- Low-floor design to facilitate rapid boarding and alighting
- Two doors to facilitate rapid boarding and alighting
- Full ADA access
- Clean diesel or diesel-electric hybrid engine

Based on CTTRANSIT's experience in procuring buses in the past, Antares Real Estate should expect that it will take approximately 12 to 18 months to procure the buses once the contract is put out for bid. Therefore, work to procure the first three buses should get underway no later than Spring 2009 to meet a Fall 2010 implementation deadline. Provisions will also need to be made for the replacement of these buses at the end of their useful life cycle (approximately every 12 to 14 years).

Currently, a typical 30-foot, heavy-duty, low-floor, clean diesel transit bus costs approximately \$320,000. By the time the buses are acquired for Phase 1 of the Harbor Point Project, changes in engine design will increase this cost to approximately \$345,000 per bus (or approximately \$530,000 per diesel-electric hybrid bus):

### **Estimated Vehicle Procurement Costs**

Delivery Year		#	Unit Cost	Total Cost	Total Cost w/ Hybrid Option
Phase 1	2010	3	\$345,000	\$1,035,000	\$1,590,000
Phase 2	2012	1	\$373,000	\$373,000	\$558,000
Phase 3	2014	1	\$403,000	\$403,000	\$588,000
Phase 4	2016	1	\$436,000	\$436,000	\$621,000
TOTAL PROCUREMENT COST				\$2,247,000	\$3,357,000

Based on model year 2009 price of \$320,000 per clean diesel bus and hybrid upgrade cost of \$185,00 per unit. Assumes 8% increase per unit for model year 2010 and additional 4% increase for each model year thereafter.

## HARBOR POINT PROJECT 10-YEAR COST RECAP

For purposes of estimating total annual cost, this table assumes annual operating cost for the 12-month period beginning on Septmber 1st of the year indicated and ending on August 31st of the following year.

This table also assumes that all service improvements will take place on September 1 and allocates capital cost of new clean diesel bus purchases to the year in which the bus will be placed into service.

١	<b>r</b> ear	# Routes	Annual Operating Cost	# Buses	Annual Capital Cost	Total Annual Cost
2010	Phase 1	2	\$310,000	2	\$1,035,000	\$1,345,000
2011		2	\$325,500	2	\$0	\$325,500
2012	Phase 2	3	\$582,000	3	\$373,000	\$955,000
2013		3	\$611,000	3	\$0	\$611,000
2014	Phase 3	3	\$1,045,000	4	\$403,000	\$1,448,000
2015		3	\$1,097,000	4	\$0	\$1,097,000
2016	Phase 4	3	\$1,423,000	5	\$436,000	\$1,859,000
2017		3	\$1,494,000	5	\$0	\$1,494,000
2018		3	\$1,569,000	5	\$0	\$1,569,000
2019		3	\$1,647,000	5	\$0	\$1,647,000
	\$12,350,500					